

WHAT IS CLAIMED IS:

1. A method of reducing growth errors in a disc drive storage system, the method comprising:
 - determining a number of sectors to be read from a disc;
 - reading data from all sectors of the number of sectors during a first disc revolution;
 - identifying error sectors having a number of errors above a predetermined threshold;
 - correcting the data from the error sectors; and
 - writing corrected data to the error sectors during a second disc revolution.
2. The method of claim 1 wherein the step of identifying includes tracking a number of errors in each sector.
3. The method of claim 1 and further comprising providing a signal for each sector indicative of whether each sector is an error sector or a non-error sector and generating a mask based on the signals.
4. The method of claim 3 wherein writing data from the error sectors comprises writing only the error sectors based on the signals for each sector indicative of whether each sector is an error sector or not.
5. The method of claim 3, and further comprising storing the mask in a buffer.

40074018-020702

6. The method of claim 1 and further comprising reading data from only the error sectors during an intermediate disc revolution.
7. The method of claim 6 wherein the intermediate disc revolution occurs between the first and second disc revolutions.
8. The method of claim 1 wherein the step of reading data from the error sectors includes storing data in a buffer.
9. The method of claim 1 wherein the step of correcting includes using error correction code.
10. A disc drive storage system, comprising:
 - a rotating disc having a disc surface;
 - a transducer configured to read and write data from the disc surface;
 - a buffer memory; and
 - a controller configured to determine a number of sectors to be read from the disc, read all sectors of the number of sectors on a disc during a first disc revolution, identify error sectors having a number of errors above a predetermined threshold, correct the data from the error sectors and write corrected data to the error sectors during a second disc revolution.
11. The disc drive storage system of claim 10 wherein the controller is further configured to track the number of errors occurring in each sector.

20240909 09:48:00

12. The disc drive storage system of claim 10 wherein the controller is further configured to generate a mask for the number of sectors, wherein the mask contains signals for each of the number of sectors based on whether the sector is an error sector or a non-error sector.
13. The disc drive storage system of claim 12 wherein the controller includes a disc controller operably coupled to the transducer to selectively read and write only the error sectors to the disc surface based on the mask.
14. The disc drive storage system of claim 12 wherein the mask is stored in the buffer memory.
15. The disc drive storage system of claim 10, wherein the disc controller is further configured to read data from only the error sectors during an intermediate disc revolution, occurring between the first and second disc revolutions.
16. The disc drive storage system of claim 10 wherein the controller further comprises an error correction code unit to correct the data from the error sectors.
17. The disc drive storage system of claim 10 wherein the controller is further configured to store the data from the error sectors in the buffer memory.

40074048-020702

18. A disc drive storage system for storing information on a surface of a disc, comprising:

a transducer for reading and writing information to the disc surface;

and

means for correcting sectors identified as having a number of errors above a predetermined threshold.

19. The disc drive storage system of claim 18 and further comprising means for tracking errors occurring in the sectors and generating signals based on the errors.

20. The disc drive storage system of claim 19 and further comprising means for selectively reading and writing data from the disc surface based on the signals.

40074018 020702